



## Tourmaline Terror

by Arya Akhavan (March 2014)

Angles for R.I. = 1.520

55 + 12 girdles = 67 facets

3-fold, mirror-image symmetry

96 index

L/W = 1.089 T/W = 0.438 U/W = 0.379

P/W = 0.417 C/W = 0.176

Vol./W<sup>3</sup> = 0.201

## PAVILION

P1	44.33°	01-31-33-63-65-95	Cut to centerpoint.
P2	43.74°	02-30-34-62-66-94	Meet at culet.
G1	90.00°	96-32-64	Set stone size.
G2	90.00°	03-29-35-61-67-93	Meet P1, P2, G1
P3	45.84°	96-32-64	Level girdle.
P4	44.04°	03-29-35-61-67-93	Level girdle.
P5	41.58°	05-27-37-59-69-91	Meet P2, P4
P6	42.25°	16-48-80	Meet G2, P4, P5
G3	90.00°	16-48-80	Level girdle.

## CROWN

C1	55.32°	96-32-64	Set girdle width.
C2	42.27°	03-29-35-61-67-93	Level girdle.
C3	36.61°	16-48-80	Level girdle.
C4	34.42°	04-28-36-60-68-92	Meet G2, G3, C2, C3; C1, C2
C5	19.53°	08-24-40-56-72-88	Meet C3, C4
T	0.00°	Table	Meet C4, C5

This design was random experiment while trying to design an Asscher-style trillion, and it's perfectly shaped for cutting tourmalines on the C axis. Can also be cut (P3 - P4 - G1 - G2 - P1 - P2), and has tons of scintillation.

Works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes, but intended for tourmaline.

Suggested size = 7-20 mm

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